

In the United States Patent and Trademark Office

Application No.: Not Yet Assigned (Reissue of U.S. Patent 6,328,482)
Filed: Herewith
Title: MULTILAYER OPTICAL FIBER COUPLER
Applicant: Arrayed Fiberoptics Corporation
Examiner: Not Yet Assigned
Art Unit: Not Yet Assigned

Express Mail Label # ET 946 108944 US

Mailed 12/6/2003
Fremont, CA

Information Disclosure Statement

Commissioner of Patents and Trademarks
Washington, District of Columbia 20231

Dear Sir or Madam:

Attached is a completed Form PTO-1449 and copies of the pertinent parts of the references cited thereon.

It is requested that the document(s) on the enclosed form be made of record. As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

It is requested that the document(s) on the enclosed form be made of record.

Part I (Authority)

This statement is filed pursuant to:

☒ 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of the national applications; (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; (3) before the mailing date of a first office action on the merits; or (4) before the mailing of a first Office action after the filing of a request for continued examination under §1.114, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

☐ 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113 or (2) a notice of allowance under 37 C.F.R. § 1.311.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) (\$180), or a certification according to 37 C.F.R. § 1.97(e).

☐ 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97(c).

Accordingly, this information disclosure statement requires the petition fee specified in 37 C.F.R. § 1.17(p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$180) and a certification according to 37 C.F.R. § 1.97(e).

Conditional Petition

It is respectfully requested that this information disclosure statement be considered, good cause being presented in Part III herein (certification). Please treat this paper as the required petition.

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record.

To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

Part II (Payment)

A check is enclosed as indicated:

- ☒ No fee is due.
- ☐ The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$180).
- ☐ The petition fee specified in 37 C.F.R. § 1.17(p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) is enclosed (\$180).

Part III (Certification)

Pursuant to 37 C.F.R. § 1.97(e), I certify:

- ☒ No certification is necessary.
- ☐ (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
- ☐ The "communication from a foreign patent office" referred to in the certification is an International Search Report, possibly issued by the U.S. Patent and Trademark Office in its capacity as an International Search Authority or International Preliminary Examining Authority.
- ☐ The "counterpart foreign application" referred to in the certification corresponds to an ancestor or descendent application of the application for which this information disclosure statement is filed.
- ☐ (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Part IV (Additional Statement)

An additional statement regarding these items of information () is, () is not, enclosed.

Copies of the cited art references U-AK (☒) are enclosed,

Copies of the cited art references _____ () are of record in parent application Serial No. _____ and will be provided if the Examiner deems it convenient.

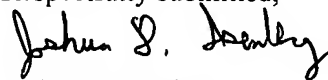
Copies of the cited art references A-T (☒) are not required under 37 CFR 1.98(a)(2)(i) because they are U.S. Patents and/or U.S. Patent Publications and

☒ the present application was filed after June 30, 2003, or

☐ the present application is an international application that entered the national stage under 35 USC 371 after June 30, 2003.

Dated: Dec. 6, 2003

Respectfully submitted,



Joshua D. Isenberg
Reg. No. 41,088
204 Castro Lane
Fremont, CA 94539
tel: (510) 896-8328
fax: (510) 360-9656

Respectfully submitted,

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE					AGENT. DOCKET NO. AFC-002/RE		SERIAL NO. Not Yet Assigned	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)					APPLICANT Arrayed Fiberoptics Corporation			
					FILING DATE Filed Herewith		GROUP Not Yet Assigned	
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	A	3968564	Jul. 13, 1976	Springthorpe.	438	27	Apr. 30, 1975	
	B	4292512	Sep. 29, 1981	Miller et al.	250	205	Jun. 19, 1978	
	C	4466696	Aug. 21, 1984	Carney.	385	49	Mar. 29, 1982	
	D	4897711	Jan. 30, 1990	Blonder et al.	257	48	Mar. 30, 1988	
	E	4934784	Jun. 19, 1990	Kapany et al.	385	33	Mar. 20, 1989	
	F	4945400	Jul. 31, 1990	Blonder et al.	257	116	Oct. 30, 1989	
	G	5181224	Jan., 19 1993	Synder.	372	101	May 10, 1991	
	H	5195150	Mar. 16, 1993	Stegmueller et al.	385	33	Jan. 27, 1992	
	I	5247597	Sep. 21, 1993	Blacha et al.	385	88	Jun. 15, 1992	
	J	5259054	Nov. 2, 1993	Benzoni et al.	385	89	Jan. 10, 1992	
	K	5337398	Aug. 9, 1994	Benzoni et al.	385	90	Nov. 30, 1992	
	L	5345529	Sep. 6, 1994	Sizer, II et al.	385	147	Jul. 6, 1993	
	M	5346583	Sep. 13, 1994	Basavanhally.	216	26	Sep. 2, 1993	
	N	5434939	Jul. 19, 1995	Matsuda.	385	88	Feb. 8, 1994	
	O	5471552	Nov. 28, 1995	Wuu et al.	385	49	Feb. 22, 1995	
	P	5501893	Mar. 26, 1996	Laermer et al.	428	161	Aug. 5, 1994	
	Q	5742720	Apr. 21, 1998	Kobayashi et al.	385	89	Aug. 29, 1996	
	R	5859940	Jan. 12, 1999	Takahashi et al.	385	34	Mar. 7, 1997	
	S	6023546	Feb. 8, 2000	Tachigori.	385	49	Jul. 1, 1998	
	T	6527455	Mar 4, 2003	Jian	385	88	Nov. 26, 2001	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	U	6-138341	May. 20, 1994	Japan			X	
EXAMINER				DATE CONSIDERED				
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.								

FORM PTO-1449U.S. DEPARTMENT OF COMMERCE		AGENT. DOCKET NO. AFC-002/RE	SERIAL NO. Not Yet Assigned
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Arrayed Fiberoptics Corporation	
		FILING DATE Herewith	GROUP Not Yet Assigned
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	
	V	CARSON et al., "Future Manufacturing Techniques for Stacked MCM Interconnections", Journal of Metal, Jun. 1994, pp. 51-55.	
	W	DASCHNER et al., "Fabrication of Monolithic Diffractive Optical Elements by the Use of E-Beam Directed Write on an Analog Resist and a Single Chemically Assisted Ion-Beam-Etching Step", Applied Optics, vol. 34, No. 14, May 1995, pp. 2534-2539.	
	X	IGA, "Active Parallel Microoptics", SPIE vol. 1319 Optics in Complex Systems, 1990, pp. 486-490.	
	Y	IGA et al., "Distributed-index Planar Microlens and Stacked Planar Optics: A Review of Progress", Applied Optics, vol. 25, No. 19 Oct. 1986, pp. 3388-3396.	
	Z	IGA, "Chapter 10: Stacked Planar Optics", Fundamentals of Microoptics, Academic Press, 1984, pp. 195-207 and pp 6-7.	
	AA	IGA et al., "Stacked Planar Optics: An Application of the Planar Microlens", Applied Optics, vol. 21, No. 19, Oct. 1982, pp. 3456-3460.	
	AB	IGA, "Two-dimensional Arrayed Microoptics", TUB2, Invited Paper, CLEO, 1989, pp. 44-45.	
	AC	KO et al., "Bonding Techniques for Microsensors", Micromachining and Micropackaging of Transducers, Elsevier Science Publisher, Amsterdam, 1986, pp. 41-61.	
	AD	LEE et al., "Low Cost High Quality Fabrication Methods and CAD for Diffractive Optics and Computer Holograms Compatible with Micro-Electronics and Micro-Mechanics Fabrication", Diffractive Optics and Optical Microsystems, Plenum Press New York, 1997, pp. 133-138.	
	AE	MATSUDA et al., "A Surface-Emitting Laser Array with Backside Guiding Holes for Passive Alignment to Parallel Optical Fibers", IEEE Photonics Technology Letters, vol. 8, No. 4, Apr. 1996, pp. 494-496.	
	AF	OIKAWA et al. "Optical Tap Array Using Distributed-Index Planar Microlens", Electronics Letters, vol. 18, No. 18, Apr. 15, 1982, pp. 316-317.	
	AG	REIMER et al., "Micro-Optic Fabrication Using One-Level Gray-Tone Lithography", SPIE, vol. 3008, 1997, pp. 279-288.	
	AH	STRZELECKA et al., "Monolithic Integration of Vertical-Cavity Laser Diodes With Refractive GaAs Microlenses", Electronics Letters, vol. 31, No. 9, Apr. 1995, pp. 724-725.	
	AI	Tai, "90% Coupling of Top Surface Emitting GaAs/AlGaAs Quantum Well Laser Output Into 8 Micron Diameter Core Silica Fibre", Electronics Letters, vol. 26, No. 19, Sep. 1990, pp. 1628-1629.	
	AJ	WANG et al., "Robust Regression Applied to Optical-Fiber Dimensional Quality Control", Technometrics, vol. 39, No. 1, Feb. 1997, pp. 25-33.	
	AK	DOHLE et al., "Low Temperature Bonding of Epitaxial Lift Off Devices With AuSn", IEEE Transactions on Components, Packaging, and Manufacturing Technology, Part B, vol. 19, No. 3, Aug. 1996, pp. 575-579.	
EXAMINER		DATE CONSIDERED	
* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			